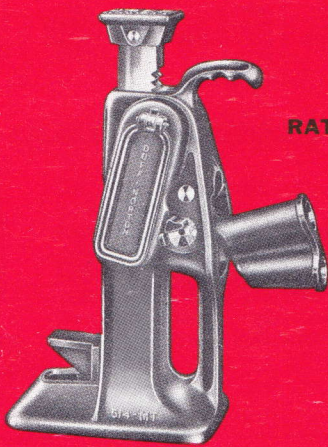
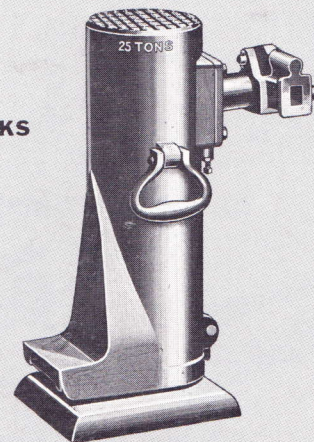


# DUFF-NORTON

THE WORLD'S MOST COMPLETE LINE OF  
**LIFTING JACKS**



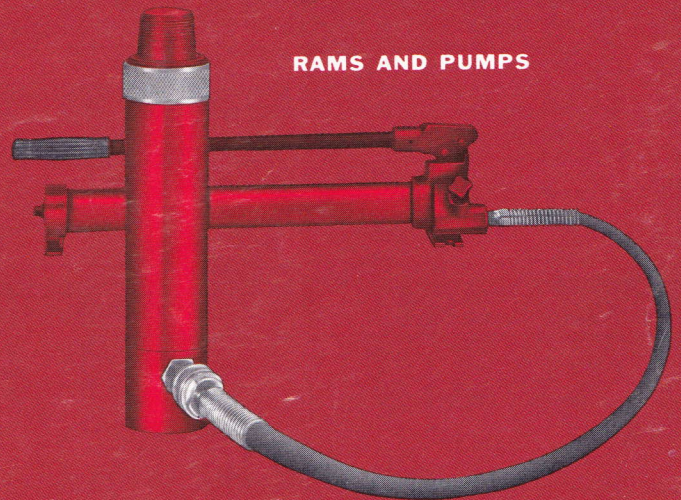
**RATCHET JACKS**



**SCREW JACKS**



**HYDRAULIC JACKS**

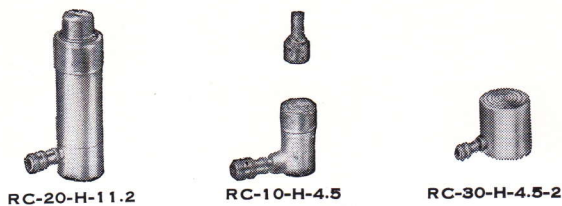


**RAMS AND PUMPS**



# DUFF-NORTON

## RAM-PAC HYDRAULIC RAMS

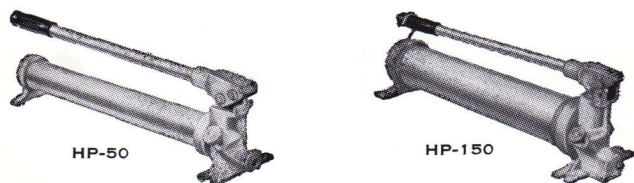


9 Rams—10 to 100 tons capacity

The Duff-Norton Ram-Pac line of nine rams has been designed to give you more travel for the same closed height than other rams now available. They also have fewer parts which reduces maintenance. All rams are made of high-strength material.

| Model No.         | Capacity (Tons) | Closed Ht. (In.)        | Extended Ht. (In.)      | Base Size (In. Dia.) | Plunger Dia. (In.) | Oil Capacity (Cu. In.) | Weight (Lbs.) | Working Pressure (PSI) |
|-------------------|-----------------|-------------------------|-------------------------|----------------------|--------------------|------------------------|---------------|------------------------|
| <b>RC10H4.5</b>   | 10              | 4 1/2<br>5 13/16 w/head | 7 3/4<br>8 13/16 w/head | 2 3/8                | 1 1/2              | 7.22                   | 5 1/4         | 9650                   |
| <b>RC10H11.7</b>  | 10              | 11 11/16                | 17 7/8                  | 2 3/8                | 1 1/2              | 16.25                  | 11 3/4        | 9650                   |
| <b>RC20H11.2</b>  | 20              | 11 1/4                  | 16 3/8                  | 3 3/8                | 2 1/8              | 39.25                  | 21 3/4        | 9050                   |
| <b>RC30H4.5-2</b> | 30              | 4 1/2                   | 6 13/16                 | 3 3/8                | 2 1/2              | 16.25                  | 13 1/2        | 9250                   |
| <b>RC30H10</b>    | 30              | 10                      | 16                      | 4                    | 2 3/8              | 53.25                  | 27            | 9250                   |
| <b>RC50H4.7</b>   | 50              | 4 3/4                   | 6 7/8                   | 5                    | 3 1/2              | 24.4                   | 25            | 9055                   |
| <b>RC50H11B</b>   | 50              | 11                      | 17 1/8                  | 5                    | 3 1/2              | 92.77                  | 49 3/4        | 9055                   |
| <b>RC100H11B</b>  | 100             | 11                      | 16                      | 7                    | 4 11/16            | 144.4                  | 95            | 9695                   |
| <b>RC-100H5.7</b> | 100             | 5 3/4                   | 7 3/4                   | 7                    | 4 11/16            | 43                     | 54            | 9695                   |

## RAM-PAC PUMPS



8 Models—3 hand—5 power

**HP-40** and **HP-50** (single-speed) and **HP-150** (two-speed) hand pumps require less effort and fewer strokes because of a high mechanical advantage and longer plunger stroke per inch of rise. **HAP-250** power pump is actuated by air pressure of 85 to 110 psi, requiring only 15 cu. ft. of air per minute at rated capacity. **HEL-250\*** and **HEP-250** power pumps are operated by 1 HP, 115-230 volt electric motor. **HGL-250\*** and **HGP-250** power pumps are operated by 1.7 HP gasoline engine and thus are ideal for field work.

\*Constructed with aluminum block and housing, for easy portability.

| Pump Model No. | Oil Cap. (Cu. In.) | Max. Working Pressure (psi) | Handle Length Inches | Length Inches | Width Inches | Height Inches | Weight Pounds |
|----------------|--------------------|-----------------------------|----------------------|---------------|--------------|---------------|---------------|
| <b>HP-40</b>   | 40                 | 10,000                      | 14                   | 18            | 5 3/8        | 5 3/8         | 10 1/2        |
| <b>HP-50</b>   | 50                 | 10,000                      | 20                   | 24            | 5 3/8        | 5 3/8         | 12 1/2        |
| <b>HP-150</b>  | 150                | 10,000                      | 20                   | 25            | 7            | 7             | 28            |
| <b>HAP-250</b> | 346.5              | 10,000                      | —                    | —             | 10 3/4" Dia. | 15 1/4        | 90            |
| <b>HEL-250</b> | 346.5              | 6,000                       | —                    | 12            | 10           | 19 1/2        | 64            |
| <b>HEP-250</b> | 346.5              | 10,000                      | —                    | —             | 10 3/4" Dia. | 18 3/4        | 100           |
| <b>HGL-250</b> | 346.5              | 6,000                       | —                    | 12            | 10           | 19            | 64            |
| <b>HGP-250</b> | 346.5              | 10,000                      | —                    | —             | 10 3/4" Dia. | 19            | 91            |

## COMPLETE RAM-PAC UNITS

Each Ram-Pac Unit includes a ram, ram half quick connect coupling, six feet of high pressure hose, hose half quick connect coupling and pump.

**PR-10-H-4.5**—Low height, ten-ton unit  
**PR-10-H-11.7**—Ten-ton unit  
**PR-20-H-11.2**—Twenty-ton unit

**PR-30-H-4.5-2**—Low height, thirty-ton unit  
**PR-30-H-10**—Thirty-ton unit  
**PR-50-H-4.7**—Low height, fifty-ton unit  
**PR-50-H-11B**—Fifty-ton unit

## HY-POWER HYDRAULIC JACKS



12-H-9

All 3 to 12 ton models (left) have extension screws which can be run up by hand to load height. 30-H-11, 50-H-12 and 100-H-12 models have Dual Pumps—which bring head quickly to load height.



50-H-12

| Jack No.        | Capacity Tons | Closed Height Inches | Power Raise Inches | Extension Screw | Total Height Inches | Head Diam. Inches | Base Size Inches | Handle Length Inches | Weight Pounds |
|-----------------|---------------|----------------------|--------------------|-----------------|---------------------|-------------------|------------------|----------------------|---------------|
| <b>3-H-9</b>    | 3             | 8 1/2                | 6                  | 3 1/2"          | 18                  | 1 1/4             | 3 3/4 x 6 3/4    | 33 1/2               | 13            |
| <b>6-H-9</b>    | 5             | 9                    | 6 1/4              | 4"              | 19 1/4              | 1 1/4             | 4 1/4 x 7 1/4    | 33 1/2               | 19            |
| <b>8-H-9</b>    | 8             | 9                    | 6 1/4              | 4 1/4"          | 19 1/4              | 1 1/4             | 4 1/4 x 7 1/4    | 33 1/2               | 22            |
| <b>12-H-9</b>   | 12            | 9 1/4                | 5 1/2              | 3 3/4"          | 18                  | 1 3/4             | 4 1/4 x 8 3/4    | 23 1/2               | 28            |
| <b>20-H-11S</b> | 20            | 10 3/4               | 7 3/4              | None            | 18 1/2              | 2 1/4             | 5 1/2 x 7        | 23 1/2               | 40            |
| <b>25-H-7.5</b> | 25            | 7 1/2                | 4                  | None            | 11 1/2              | 2 1/2             | 5 x 7            | 27 1/2               | 35            |
| <b>25-H-9.3</b> | 25            | 9 3/8                | 6                  | None            | 15 3/8              | 2 1/2             | 5 x 7            | 27 1/2               | 38            |
| <b>30-H-11</b>  | 30            | 11                   | 7                  | None            | 18                  | 3                 | 6 x 8 1/2        | 20                   | 66            |
| <b>35-H-7.7</b> | 35            | 7 3/4                | 4                  | None            | 11 1/4              | 2 3/8             | 6 x 8            | 23 1/2               | 51            |
| <b>35-H-9.7</b> | 35            | 9 3/4                | 6                  | None            | 15 3/4              | 2 3/8             | 6 x 8            | 23 1/2               | 55            |
| <b>50-H-12</b>  | 50            | 12                   | 7                  | None            | 19                  | 3 3/4             | 7 1/2 x 10       | 20                   | 123           |
| <b>100-H-12</b> | 100           | 12                   | 6 1/4              | None            | 18 1/4              | 5                 | 9 1/2 x 12       | 20                   | 225           |
| <b>25-H-8.7</b> | 25            | 8 3/4                | 4                  | None            | 12 3/4              | —                 | 5 x 7            | 27 1/2               | 36            |
| <b>TIMBER</b>   |               |                      |                    |                 |                     |                   |                  |                      |               |

## RATCHET LOWERING JACKS



514-MT

Capacities from 5 to 20 tons. All 5-ton models (left) furnished with double round sockets and steel operating lever 1" x 30" long; 10-ton (right) and 15-ton models have lever 1 1/4" x 62" long; 20-ton jack has single round socket and steel operating lever 1 1/4" x 62" long.



1022

| Jack No.      | Capacity Tons | Height Inches | Raise Inches | Base Inches   | Head Inches   | Foot Lift Height Inches | Weight Pounds |
|---------------|---------------|---------------|--------------|---------------|---------------|-------------------------|---------------|
| <b>514-MT</b> | 5             | 14            | 7 1/2        | 5 1/4 x 7 3/4 | 2 1/2 x 2 3/4 | 1 1/2                   | 31            |
| <b>516-MT</b> | 5             | 16            | 9 1/2        | 5 1/4 x 7 3/4 | 2 1/2 x 2 3/4 | 1 1/2                   | 34            |
| <b>521-MT</b> | 5             | 21            | 14 1/2       | 5 1/4 x 7 3/4 | 2 1/2 x 2 3/4 | 1 1/2                   | 41            |
| <b>1017</b>   | 10            | 17 1/4        | 9            | 7 x 10 1/4    | 3 x 3         | 2 1/4                   | 55            |
| <b>1020</b>   | 10            | 20            | 10 1/2       | 7 x 10 1/4    | 3 x 3         | 2 1/4                   | 59            |
| <b>1022</b>   | 10            | 22            | 12 1/2       | 7 x 10 1/4    | 3 x 3         | 2 1/4                   | 65            |
| <b>1522</b>   | 15            | 22            | 11 1/2       | 8 x 11        | 3 x 3 1/2     | 2 1/2                   | 82            |
| <b>1528</b>   | 15            | 28            | 17 1/2       | 8 x 11        | 3 x 3 1/2     | 2 1/2                   | 96            |
| <b>2028</b>   | 20            | 28            | 18           | 8 x 11        | 3 x 3 1/2     | 2 1/2                   | 103           |

## GEARED RATCHET LOWERING JACK

**29-A**—Capacity, 25 tons; height, 27 3/4"; raise, 15 1/4"; base diameter, 12"; head, 3 1/2" x 3 3/4"; weight, 170 lbs. Single acting. All gears and moving parts are machine cut and heat treated. Furnished with round wooden operating lever 3 1/4" x 66" long.



29-A

## 4-WAY RATCHET LOWERING JACK



1523

**1523**—Capacity, 15 tons; height 23"; raise, 12 1/2"; base 7 1/2" x 10 3/4", head 2 3/4" x 4"; weight, 70 lbs. Furnished with steel operating lever 1 1/4" x 60" long.



# LIFTING JACKS

## CABLE REEL JACKS

- 520-CR** —Screw jack for reels 42" to 60" dia.  
**530-CR** —Screw jack for reels 60" to 90" dia.  
**524-MCR** —Ratchet jack for reels 20" to 60" dia.—Furnished with double round sockets and steel operating lever 1" x 30".  
**1030-CR** —Ratchet jack for reels 20" to 84" dia. Furnished in left and right hand pairs, single round sockets with operating levers 1¼" x 60". Solid oak "T" frame base.  
**1022-CR** —Ratchet jack for reels 25" to 90" dia. Furnished with single round socket and steel operating lever 1¼" to 60".



530-CR

| Jack No. | Capacity Tons | Height Inches | Raise Inches | Base Inches | Weight Pounds |
|----------|---------------|---------------|--------------|-------------|---------------|
| 520-CR   | 5             | 20            | 11½          | 12½ x 26½   | 66            |
| 530-CR   | 5             | 30            | 16½          | 15¼ x 39½   | 90            |
| 524-MCR  | 5             | 23¾           | 14           | 8¼ x 18     | 68            |
| 1030-CR  | 10            | 30            | 14           | —           | 112           |
| 1022-CR  | 10            | 38            | 12           | 9¾ x 24     | 103           |



524-MCR



1030-CR



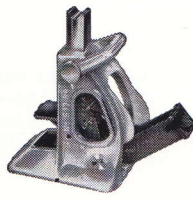
1022-CR

## TRACK JACKS

All Genuine Barrett Track Jacks are furnished with single square socket without lining bar. Round socket and wooden operating lever may be furnished (2½" x 48" long) at extra cost.



117



517-BA

| Jack No. | Capacity Tons | Height Inches | Raise Inches | Base Inches | Head Inches | Foot Lift Height Inches | Weight Pounds |
|----------|---------------|---------------|--------------|-------------|-------------|-------------------------|---------------|
| *117A    | 15            | 22            | 12           | 6½ x 11     | 3x3         | 2                       | 46            |
| 117      | 15            | 22            | 13           | 6½ x 11     | 3x3         | 2                       | 66            |
| 217      | 15            | 16½           | 7½           | 6½ x 11     | 3x3         | 2                       | 52            |
| †517B    | 15            | 11½           | 5            | 6½ x 10¼    | —           | 2                       | 45            |
| †*517BA  | 15            | 11½           | 5            | 6½ x 10¼    | —           | 2                       | 31            |
| 617      | 15            | 28            | 18½          | 7x12        | 3x3         | 2                       | 81            |
| 1-A      | 15            | 22            | 13           | 6½ x 11     | 3x3         | 2                       | 60            |
| 110      | 15            | 22¼           | 13           | 6½ x 11     | 3x3         | 2                       | 62            |
| †*717-BA | 15            | 14            | 7½           | 6½ x 10¼    | —           | 2                       | 36            |

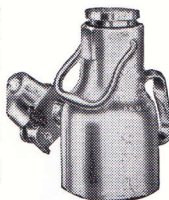
\*Aluminum

†Broad Toe

## JOURNAL JACKS

**Aluminum**—25-35-50-100 Tons. Are 25% lighter than regular models. All furnished with steel operating lever-pry bar 1½" dia. in lengths: 36" for 25 and 35 ton; 48" for 50 ton; 60" for 100 ton. (A-Series)

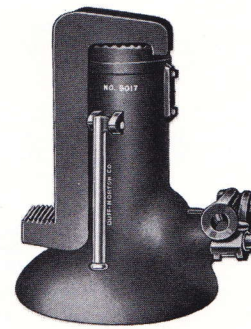
**Malleable iron**—15-25-35-50 Tons. All furnished with steel operating lever-pry bar 1½" dia. in lengths: 28" for 15 ton; 36" for 25 and 35 ton; 48" for 50 ton.



| Jack No.  | Capacity Tons | Height Inches | Raise Inches | Base Dia. Inches | Head Dia. Inches | Weight Pounds |
|-----------|---------------|---------------|--------------|------------------|------------------|---------------|
| 1507      | 15            | 7             | 2½           | 4¾               | 2½               | 22            |
| 111-C-2   | 15            | 10            | 5            | 4¾               | 2½               | 26            |
| 2509-C-2  | 25            | 9             | 4½           | 5¾               | 3                | 37            |
| 2510-C-2  | 25            | 10            | 5            | 5¾               | 3                | 38            |
| 2510-A-2* | 25            | 10            | 5            | 5¾               | 3                | 29            |
| 3510-C-2  | 35            | 10            | 5            | 5¾               | 3¾               | 48            |
| 3510-A-2* | 35            | 10            | 5            | 5¾               | 3¾               | 35            |
| 5010-A-2* | 50            | 10            | 4½           | 7½               | 4                | 48            |
| 5050-C-2  | 50            | 10            | 4½           | 7½               | 4                | 64            |
| 100-A-12* | 100           | 12            | 4            | 8¾               | 5                | 98            |
| 100-C-12  | 100           | 12            | 4            | 8¾               | 5                | 145           |

\*Aluminum

## SCREW JACKS



5017\*

**5017**—Low height, 50-ton removable foot lift furnished with pinched end steel operating lever 1½" x 48".

NOTE: Foot lift is rated at one-half capacity of jack.

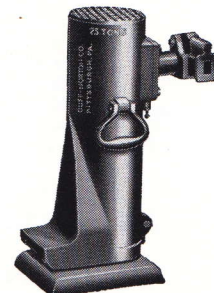
| Jack No. | Capacity Tons | Height Inches | Raise Inches | Base Diam. Inches | Head Diam. Inches | Foot Lift Height Inches | Weight Pounds |
|----------|---------------|---------------|--------------|-------------------|-------------------|-------------------------|---------------|
| 5017     | 50            | 16½           | 7            | 12                | 5½                | 5                       | 191           |

\*Detachable foot lift is 5" high

## HEAVY DUTY SCREW JACKS



B-5024



B-2522

**Large Head**—50-Tons. Furnished with steel combination operating lever-pry bar 1½" x 42".

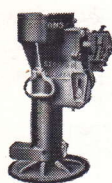
**Small Head**—25 ton models furnished with steel combination operating lever-pry bar 1" x 38". 35-ton models lever 1½" x 42".

| Jack No. | Capacity Tons | Height Inches | Raise Inches | Base Inches | Head Diam. Inches | Foot Lift Height Inches | Weight Pounds |
|----------|---------------|---------------|--------------|-------------|-------------------|-------------------------|---------------|
| "S"      | 15            | 21¾           | 11½          | 8½          | 4½                | 2½                      | 73            |
| B-2522   | 25            | 22            | 10¼          | 8x9¼        | 5½                | 3½                      | 137           |
| B-3522   | 35            | 26            | 14¼          | 9x10¼       | 6½                | 3½                      | 207           |
| B-5024   | 50            | 24            | 10½          | 14          | 10¼               | 5½                      | 289           |



# DUFF-NORTON LIFTING JACKS

## SPEED CONTROLLED JACKS



5265-BB

**Large Head**—Foot lift—35-50-100 Tons. High-speed, self-lowering. Furnished with steel operating lever-pry bar  $1\frac{1}{8}$ " x 50" for 35 ton; others with  $1\frac{3}{16}$ " x 60" levers.



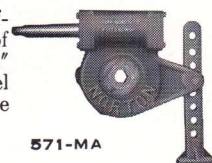
1263-C

**Small Head**—50-100 Tons. High-speed, self-lowering. Furnished with steel operating lever-pry bar  $1\frac{3}{16}$ " x 60".

| Jack No. | Capacity Tons | Height Inches | Raise Inches     | Base Diam. Inches | Head Diam. Inches | Foot Lift Height Inches | Weight Pounds |
|----------|---------------|---------------|------------------|-------------------|-------------------|-------------------------|---------------|
| 3265-BB  | 35            | 26            | 14               | 12                | 6 $\frac{3}{4}$   | 3 $\frac{3}{4}$         | 178           |
| 5261-BB  | 50            | 26            | 14 $\frac{1}{2}$ | 13 $\frac{3}{4}$  | 6                 | —                       | 269           |
| 6265-BB  | 50            | 26            | 14 $\frac{1}{2}$ | 14                | 10                | 4 $\frac{1}{4}$         | 292           |
| 1265-BB  | 100           | 26            | 12               | 13 $\frac{3}{4}$  | 10                | 4 $\frac{1}{2}$         | 412           |
| 1263-C   | 100           | 26            | 13 $\frac{1}{2}$ | 13 $\frac{3}{4}$  | 7 $\frac{1}{2}$   | —                       | 402           |

## MOTOR ATTACHMENT

**571-MA**—Converts all speed controlled self-lowering jacks to motor operation by use of rotary air or electric drill motors. ( $1\frac{1}{2}$ " to 2" drill size) When ordering, specify by model number which Duff-Norton jack is to be converted.



571-MA

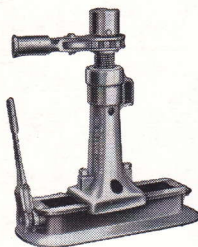


$1\frac{1}{2}$  x 8  $1\frac{3}{4}$  x 10  
 $1\frac{1}{2}$  x 10 2 x 8  
 $1\frac{1}{2}$  x 12 2 x 10  
 2 x 12

## BELL BASE SCREW JACKS

Easy-operating, safe, sturdy jack screws with an extra heavy base, solid all the way around to prevent mud and sand from entering the jack mechanism. One-piece selected steel screw has drop-forged steel head fitted with serrated steel top. Capacities 12 to 20 tons; closed heights  $10\frac{3}{4}$ " to  $15\frac{3}{4}$ "; raises 6" to 9".

## TRAVERSING JACK

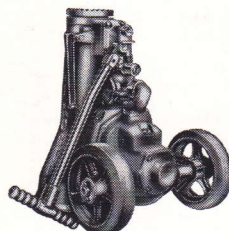


S-825

**S-825**—Capacity, 35 tons; height, 24"; raise  $10\frac{1}{2}$ "; horizontal travel,  $12\frac{3}{8}$ "; base,  $9\frac{1}{4}$ " x  $22\frac{5}{8}$ "; head diameter,  $4\frac{1}{2}$ "; weight, 139 lbs.

A strong horizontal load-moving jack for rerailling railway locomotives and cars, and for rigging and industrial service where combined horizontal moving and lifting are required. Steel operating lever  $15\frac{1}{16}$ " x 54" long, is also a carrying handle.

## AIR MOTOR JACKS

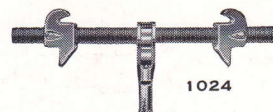


126-RX

Screw jacks operated by rotary air motor—save time and labor—lower operating costs. Will not exceed safe limit of raise, lower automatically. One man can operate two jacks simultaneously by means of "Y" connection. The "Y" consists of two 20-ft. sections of  $\frac{3}{4}$ " hose with necessary ends, couplings, clamps and "Y" valves. Available at extra cost.

| Jack No. | Capacity Tons | Height Inches | Raise Inches     | Base Dia. Inches | Head Dia. Inches | Weight Pounds |
|----------|---------------|---------------|------------------|------------------|------------------|---------------|
| 228-R    | 20            | 18            | 18               | 12               | 4                | 238           |
| 328-R    | 35            | 26            | 14 $\frac{3}{4}$ | 14               | 4                | 258           |
| 528-RX   | 50            | 28            | 17               | 14               | 5                | 370           |
| 538-RX   | 50            | 36            | 25               | 15               | 5                | 425           |
| 128-RX   | 75-100        | 26            | 13 $\frac{3}{4}$ | 13               | 6 $\frac{3}{4}$  | 448           |
| 144-RX   | 75-100        | 44            | 30               | 18               | 6 $\frac{3}{4}$  | 530           |

## PUSH AND PULL JACKS



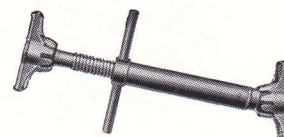
1024

Designed for pushing apart or pulling together structural members, walls, machinery and equipment. Available in 10 and 15 ton capacities; 24", 28" and 38" in length.

| Jack No. | Capacity Tons | Diameter of Screw Inches | Length Overall Inches | Weight Pounds |
|----------|---------------|--------------------------|-----------------------|---------------|
| 1024     | 10            | 2                        | 24                    | 46            |
| 1029     | 10            | 2                        | 28                    | 50            |
| 1538     | 15            | 2 $\frac{1}{2}$          | 38                    | 97            |

\*Jacks listed above are standard. However, this type jack can be furnished in greater lengths. Prices on request.

## TRENCH BRACES



1001-1015

For bracing the sheeting which forms the sides of trenches of various sizes. Two-way lever nut regularly furnished. Three-way nut, for working in close quarters where a two-way nut cannot be used, may be furnished alternately at no extra cost. Available in lengths (closed) from 16" to 60".

## MINE ROOF and TIMBERING JACKS —FITTINGS



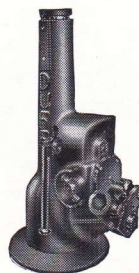
MR-8  
MR-16

For cross timbering, mine roof support, and protection of working face area. Standard type (left) available as complete unit in 8 and 16 ton capacities; heights from 30" to 72". Tailor-made type (right) includes top and base fittings which attach to 2" pipe, cut to required height on the job; 8 and 16 ton capacities—pipe not furnished.



MR-80  
MR-160

## GOVERNOR-CONTROLLED JACKS



2825

Governor-controlled, self-lowering—these jacks will not twist under load, will not exceed safe limit of raise. Furnished with steel operating lever.

| Jack No. | Capacity Tons | Height Inches | Raise Inches     | Base Dia. Inches | Head Dia. Inches | Weight Pounds |
|----------|---------------|---------------|------------------|------------------|------------------|---------------|
| 2825     | 25            | 28            | 15 $\frac{3}{4}$ | 12               | 4                | 175           |
| 2835     | 35            | 28            | 15 $\frac{3}{4}$ | 12               | 4                | 190           |
| 2850     | 50            | 26            | 13 $\frac{1}{2}$ | 14               | 5 $\frac{1}{2}$  | 238           |
| 2860     | 50            | 28            | 15 $\frac{1}{2}$ | 14               | 5 $\frac{1}{2}$  | 240           |

**DUFF-NORTON COMPANY**

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